

67) A method of providing operational power to a battery powered utilization device, said method comprising:

- B2
- a) monitoring operational battery pack characteristics;
  - b) storing said characteristics in an electronic memory device contained within said battery pack as battery pack data;
  - c) monitoring present battery pack conditions;
  - d) retrieving said battery pack data;
  - e) communicating said present battery pack conditions and said battery pack data to said battery powered utilization device; and
  - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising entering a low power mode.

14 15) A method of providing operational power to a battery powered utilization device, said method comprising:

- B3
- a) monitoring operational battery pack characteristics;
  - b) storing said characteristics in an electronic memory device contained within said battery pack as battery pack data;
  - c) monitoring present battery pack conditions;
  - d) retrieving said battery pack data;
  - e) communicating said present battery pack conditions and said battery pack data to said battery powered utilization device; and
  - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising deselecting at least one battery of the battery pack.

15 17) A method of providing operational power to a portable utilization device, said method comprising:

- B4
- a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;
  - b) coupling the battery pack with the portable utilization device;
  - c) monitoring present battery pack conditions;
  - d) retrieving the battery pack data;

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e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and

f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising powering down circuitry when it is not needed.

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225 A method of providing operational power to a portable utilization device, said method comprising:

a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;

b) coupling the battery pack with the portable utilization device;

c) monitoring present battery pack conditions;

d) retrieving the battery pack data;

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e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and

f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising entering a low power mode.

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305 A method of providing operational power to a portable utilization device, said method comprising:

b6  
a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;

b) coupling the battery pack with the portable utilization device;

c) monitoring present battery pack conditions;

d) retrieving the battery pack data;

e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and

f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising deselecting at least one battery of the battery pack.

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32) A method of providing operational power to a portable utilization device, said method comprising : [:]

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- a) coupling a battery pack with an electronic memory system and with processing circuitry of the portable utilization device;
  - b) incorporating in the electronic memory system, battery pack data related to battery pack characteristics of the battery pack;
  - c) monitoring present battery pack conditions;
  - d) retrieving the battery pack data;
  - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
  - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising powering down circuitry when it is not needed.
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37) A method of providing operational power to a portable utilization device, said method comprising : [:]

- b7
- a) coupling a battery pack with an electronic memory system and with processing circuitry of the portable utilization device;
  - b) incorporating in the electronic memory system, battery pack data related to battery pack characteristics of the battery pack;
  - c) monitoring present battery pack conditions;
  - d) retrieving the battery pack data;
  - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
  - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling procedure comprising entering a low power mode.
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45) A method of providing operational power to a portable utilization device, said method comprising : [:]

- 68
- a) coupling a battery pack with an electronic memory system and with processing circuitry of the portable utilization device;

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